

## **ABSTRACT**

This disclosure provides lentiviral vectors containing an attachment incompetent fusogenic polypeptide and a heterologous targeting polypeptide. Also provided are lentiviral packaging constructs, lentiviral packaging systems, and lentiviral gene delivery systems. Finally, methods of transducing a cell and methods of targeting a gene to a cell or tissue using the disclosed lentiviral vectors and systems are also provided.